OIPE JC#17
JAN 13 2004
PATENT & TRADEMARK OFFICE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	Confirmation No. 3915
Hartley *et al.*	Art Unit: 1636
Appl. No. 10/680,316	Examiner: *To be assigned*
Filed: October 8, 2003	Atty. Docket: 0942.285000M/BJD/JKM
For: **Recombinational Cloning Using Nucleic Acids Having Recombination Sites**	

Information Disclosure Statement

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Copies of all documents were previously cited or submitted to the office in an Information Disclosure Statement in Application No. 09/498,074, Hartley *et al.*, filed February 4, 2000, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. If the Examiner does not have access to the copies of the cited documents, the Examiner is hereby invited to request the copies from the undersigned attorney of record.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being before the mailing date of a first Office Action on the merits. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Brian J. Del Buono
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Date: Jan. 13, 2004

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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.285000M/BJD/JKM	APPLICATION NO. 10/680,316
	APPLICANT Hartley *et al.*	
	FILING DATE October 8, 2003	GROUP 1636

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1	4,673,640	06/16/1987	Backman, K.C.	435	68	04/30/1984
	AB1	4,743,546	05/10/1998	Backman *et al.*	435	108	02/13/1985
	AC1	4,959,317	09/25/1990	Sauer B.L.	435	172.3	04/29/1987
	AD1	5,227,288	07/13/1993	Blattner, F.R.	435	6	10/01/1990
	AE1	5,354,668	10/11/1994	Auerbach, J.I.	435	91.1	10/15/1993
	AF1	5,434,066	07/18/1995	Bebee, R.L., *et al.*	435	172.3	03/15/1994
	AG1	5,470,727	11/28/1995	Mascarenhas *et al.*	435	172.3	12/21/1993
	AH1	5,591,609	01/07/1997	Auerbach, J.I.	435	91.2	02/03/1995
	AI1	5,614,389	03/25/1997	Auerbach, J.I.	435	91.2	09/26/1995
	AJ1	5,635,381	06/03/1997	Hooykaas *et al.*	435	172.3	01/20/1995
	AK1	5,658,772	08/19/1997	Odell *et al.*	435	172.3	07/27/1994

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1	EP 0 160 571 A2	11/06/1985	Europe			Yes No
	AM1	EP 0 300 422	01/25/1989	Europe			Yes No
	AN1	WO 91/02801	03/07/1991	WIPO			Yes No
	AO1	WO 91/16427	10/31/1991	WIPO			Yes No
	AP1	WO 92/20791	11/26/1992	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	1	Abremski, K., and Gottesman, S., "Purification of the Bacteriophage λ *xis* Gene Product Required for λ Excisive Recombination," *J. Biol. Chem. 257(16)*:9658-9662 (1982).
	AS	1	Abremski, K., and Hoess, R., "Bacteriophage P1 Site-specific Recombination - Purification and Properties of the Cre Recombinase Protein," *J. Biol. Chem. 259*:1509-1514 (1984).
	AT	1	Abremski, K., *et al.*, "Bacteriophage P1 Cre-*loxP* Site-specific Recombination: Site-specific DNA Topoisomerase Activity of the Cre Recombination Protein," *J. Biol. Chem. 261(1)*:391-396 (1986).

EXAMINER	DATE CONSIDERED

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	AA2	5,677,170	10/14/1997	Devine *et al.*	435	20.1	03/02/1994
	AB2	5,677,177	10/14/1997	Wahl *et al.*	435	325	06/07/1995
	AC2	5,710,248	01/20/1998	Grose, C.F.	530	327	07/29/1996
	AD2	5,723,765	03/03/1998	Oliver *et al.*	800	208	06/07/1995
	AE2	5,733,733	03/31/1998	Auerbach, J.I.	435	6	02/01/1996
	AF2	5,733,743	03/31/1998	Johnson *et al.*	435	320.1	06/10/1996
	AG2	5,744,336	04/28/1998	Hodges *et al.*	435	172.3	03/08/1996
	AH2	5,766,891	06/16/1998	Shuman, S.	435	91.41	12/19/1994
	AI2	5,776,449	07/07/1998	Baum *et al.*	424	93.2	09/20/1996
	AJ2	5,830,707	11/03/1998	Bushman, F.D.	435	69.7	06/05/1995
	AK2	5,837,242	11/17/1998	Holliger *et al.*	424	136.1	05/14/1996

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL2	WO 93/15191	08/05/1993	WIPO			Yes No
	AM2	WO 93/19172	09/30/1993	WIPO			Yes No
	AN2	CA 2,141,412	02/17/1994	Canada			Yes No
	AO2	WO 94/17176	08/04/1994	WIPO			Yes No
	AP2	WO 97/06265	02/20/1997	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	2	Abremski, K., *et al.*, "Studies on the Properties of P1 Site-Specific Recombination: Evidence for Topologically Unlinked Products Following Recombination," *Cell 32*:1301-1311 (1993).
	AS	2	Adams, D. E., *et al.*, "Cre-*lox* Recombination in *Escherichia coli* Cells: Mechanistic Differences from the *in Vitro* Reaction," *J. Mol. Biol. 226*:661-673 (1992).
	AT	2	Andrews, B.J., *et al.*, "The FLP Recombinase of the 2μ Circle DNA of Yeast: Interaction with Its Target Sequences," *Cell 40*:795-803 (1985).

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	AA3	5,843,772	12/01/1998	Devine, S.E., *et al.*	435	69.1	11/18/1994
	AB3	5,851,808	12/22/1998	Elledge *et al.*	435	172.3	02/28/1997
	AC3	5,858,657	01/12/1999	Winter *et al.*	435	6	06/07/1995
	AD3	5,871,907	02/16/1999	Winter *et al.*	435	6	03/31/1994
	AE3	5,874,259	02/23/1999	Szybalski, W.	435	91.1	11/21/1997
	AF3	5,888,732	03/30/1999	Hartley *et al.*	435	6	06/07/1996
	AG3	5,916,804	06/29/1999	Bushman, F.D.	435	325	04/17/1998
	AH3	5,919,676	07/06/1999	Graham *et al.*	435	172.3	06/07/1995
	AI3	5,928,914	07/27/1999	Leboulch *et al.*	435	172.3	11/05/1996
	AJ3	5,989,872	11/22/1999	Luo *et al.*	435	91.2	08/12/1997
	AK3	6,010,884	01/04/2000	Griffiths *et al.*	435	69.7	05/29/1996

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL3	WO 97/09436	03/13/1997	WIPO			Yes No
	AM3	WO 97/25446	07/17/1997	WIPO			Yes No
	AN3	WO 97/32481	09/12/1997	WIPO			Yes No
	AO3	WO 98/10086	03/12/1998	WIPO			Yes No
	AP3	WO 99/10488	03/04/1999	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	3	Andrews, B.J., *et al.*, "Interaction of the FLP Recombinase of the *Saccharomyces cerevisiae* 2μm Plasmid with Mutated Target Sequences," *Mol. Cell. Biol.* *6*:2482-2489 (1986).
	AS	3	Anton, M., and Graham, F.L., "Site-Specific Recombination Mediated by an Adenovirus Vector Expressing the Cre Recombinase Protein: a Molecular Switch for Control of Gene Expression," *J. Virol.* *69*:4600-4606 (1995).
	AT	3	Araki, H., *et al.*, "Site-specific Recombinase, R, Encoded by Yeast Plasmid pSR1," *J. Mol. Biol.* *225*:25-37 (1992).

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA4	6,063,627	06/16/2000	McVey *et al.*	435	440	02/25/1998
	AB						
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	4	Argos, P., *et al.*, "The integrase family of site-specific recombinases: regional similarities and global diversity," *EMBO J. 5(2)*:433-440 (1986).
	AS	4	Atlung, T., *et al.*, "A versatile method for integration of genes and gene fusions into the λ attachment site of *Escherichia coli*," *Gene 107*:11-17 (1991).
	AT	4	Ausubel, F.M., *et al.*, "Maps of Plasmids pBR322 and pUC19," in *Current Protocols in Molecular Biology*, John Wiley & Sons, Inc., Boston, MA, (1995).

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FOREIGN PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	5	Ausubel, F.M., *et al.*, "Mutagenesis by the Polymerase Chain reaction," in: *Current Protocols in Molecular Biology*, Boston: John Wiley $ Sons, Inc., pp. 8.5.1-8.5.9 (1995).
	AS	5	Babineau, D. *et al.*, "The FLP Protein of the 2-micro Plasmid of Yeast," *J. Biol. Chem. 260*:12313-12391 (1985).
	AT	5	Balakrishnan, R., *et al.*, "A gene cassette for adapting *Escherichia coli* strains as hosts for *att*-Int-mediated rearrangement and p_L expression vectors," *Gene 138*:101-104 (January 1994).

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	6	Bayley, C.C., *et al.*, "Exchange of gene activity in transgenic plants catalyzed by the Cre-*lox* site specific recombination system," *Plant Mol. Biol. 18*:353-361 (1992).
	AS	6	Bethke, B., and Saur, B., "Segmental genomic replacement by Cre-mediated recombination: genotoxic stress activation of the p53 promoter in single-copy transformants," *Nucl. Acids Res. 25*:2828-2834 (1997).
	AT	6	Bernard, P., and Couturier, M., "Cell Killing by the F plasmid Ccdb Protein Involves Poisoning of DNA-topoisomerase II Complexes," *J. Mol. Biol. 226*:735-745 (1992).

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	7	Bernard, P., "Positive Selection of Recombinant DNA by CcdB," *BioTechniques* 21:320-323 (August 1996).
	AS	7	Betz, U. A. K., *et al.*, "Bypass of lethality with mosaic mice generated by Cre-loxP-mediated recombination," *Curr. Biol.* 6:1307-1316 (October 1996).
	AT	7	Bhandari, P and Gowrishankar, J., "An Escherichia coli host strain useful for efficient overproduction of cloned gene products with NaCl as the inducer," *J. Bacteriol* 179:4403-4406 (July 1997).

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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	AR	8	Black, L.W., "In vitro packaging into phage T4 particles and specific recircularization of phage lambda DNAs," *Gene 46*:97-101 (1986).
	AS	8	Bloch, C.A., *et al.*, "Purification of *Escherichia coli* Chromosomal Segments without Cloning," *Biochem. Biophys. Res. Comm. 223*:104-111 (1996).
	AT	8	Bochner, B. R., *et al.*, "Positive Selection for Loss of Tetracycline Resistance," *J. Bacteriol. 143*:926-933 (1980).

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	AP						Yes No

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	AR	9	Boyd, A. C., "Turbo cloning: a fast, efficient method for cloning PCR products and other blunt-ended DNA fragments into plasmids," *Nucl. Acids Res. 21(4)*:817-821 (1993).
	AS	9	Broach, J. R., *et al.*, "Recombination within the Yeast Plasmid 2μ Circle is Site-Specific," *Cell 29*:227-234 (1982).
	AT	9	Brunelli, J. P. and Pall, M. L., "A Series of Yeast/*Escherichia coli* λ Expression Vectors Designed for Directional Cloning of cDNAs and *cre/lox*-Mediated Plasmid Excision," *Yeast 9*:1309-1318 (1993).

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	AO						Yes No
	AP						Yes No

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	AR	10	Brunelli, J.P., and Pall, M.L., "Lambda/Plasmid Vector Construction by *In Vivo cre/lox*-Mediated Recombination," *BioTechniques 16(6)*:1061-1064 (June 1994).
	AS	10	Bubeck, P., *et al.*, "Rapid cloning by homologous recombination *in vivo*," *Nucl. Acids Res. 21*:3601-3602 (1993).
	AT	10	Buchholz, F., *et al.*, "A simple assay to determine the functionality of Cre or FLP recombination targets in genomic manipulation constructs," *Nucl. Acids Res. 24(15)*:3118-3119 (1996).

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	AN						Yes No
	AO						Yes No
	AP						Yes No

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	AR	11	Buchholz, F., *et al.*, "Different thermostabilities of FLP and Cre recombinases: implications for applied site-specific recombination," *Nucl. Acids Res.* *24(21)*:4256-4262 (1996).
	AS	11	Bushman, W., *et al.*, "Control of Directionality in Lambda Site Specific Recombination," *Science 230*:906-911 (1985).
	AT	11	Campbell, A. M., "Chromosomal Insertion Sites for Phages and Plasmids," *J. Bacteriol. 174(23)*:7495-7499 (1992).

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	12	Chapin, SJ *et al.*, "Differential expression of alternatively spliced forms of MAP4: a repertoire of structurally different microtubule-binding domains," *Biochem.* 34:2289-2301 (1995).
	AS	12	Chatterjee, P.K., and Coren, J.S., "Isolating large nested deletions in bacterial and P1 artificial chromosomes by *in vivo* P1 packaging of products o Cre-catalysed recombination between the endogenous and a transposed *loxP* site," *Nucl. Acids Res.* 25:2205-2212 (1997).
	AT	12	Craig, NL and Nash, HA, "The mechanism of phage lambda site-specific recombination: site-specific breakage of DNA by Int topoisomerase," *Cell* 35:795-803 (1983).

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.	APPLICATION NO.
0942.285000M/BJD/JKM	10/680,316
APPLICANT: Hartley *et al.*	
FILING DATE: October 8, 2003	GROUP: 1636

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	AR	13	Cox, M.M., "The FLP protein of the yeast 2-μm plasmid: Expression of a eukaryotic genetic recombination system in *Escherichia coli*," *Proc. Natl. Acad. Sci. USA 80*:4223-4227 (1983).
	AS	13	Dale, E. C. and Ow, D. W., "Intra- and intermolecular site-specific recombination in plant cells mediated by bacteriophage P1 recombinase," *Gene 91*:79-85 (1990).
	AT	13	Dale, E. C. and Ow, D. W., "Gene transfer with subsequent removal of the selection gene from the host genome," *Proc. Natl. Acad. Sci. USA 88*:10558-10562 (1991).

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	AR	14	Dang, D. T. and Perrimon, N., "Use of a Yeast Site-Specific Recombinase to Generate Embryonic Mosaics in *Drosophila*," *Develop. Genetics* 13:367-375 (1992).
	AS	14	Degryse, E., "In vivo intermolecular recombination in *Escherichia coli*:application to plasmid constructions," *Gene* 170:45-50 (1996).
	AT	14	Devine, S. E., and Boeke, J.D., "Efficient integration of artificial transposons into plasmid targets *in vitro*: a useful tool for DNA mapping, sequencing and genetic analysis," *Nucl. Acids Res. 22(18)*:3765-3772 (September 1994).

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	AR	15	Diederich, L., *et al.*, "New Cloning Vectors for Integration into the λ Attachment Site *attB* of the *Escherichia coli* Chromosome," *Plasmid 28*:14-24 (1992)
	AS	15	Dymecki, S. M., "A modular set of *Flp, FRT* and *lacZ* fusion vectors for manipulating genes by site-specific recombination," *Gene 171*:197-201 (June 1996).
	AT	15	Elledge, S. J., *et al.*, "λYES: A multifunctional cDNA expression vector for the isolation of genes by complementation of yeast and *Escherichia coli* mutations," *Proc. Natl. Acad. Sci. USA 88*:1731-1735 (1991).

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	AR	16	Feil, R., *et al.*, "Regulation of Cre Recombinase Activity by Mutated Estrogen Receptor Ligand-Binding Domains," *Biochem. Biophys. Res. Comm.* 237:752-757 (1997).
	AS	16	Ferguson, J., *et al.*, "Construction and characterization of three yeast-*Escherichia coli* shuttle vectors designed for rapid subcloning of yeast genes on small DNA fragments," *Gene* 16:191-197 (1981).
	AT	16	Filutowicz, M., *et al.*, "Purification of the *Escherichia coli* integration host factor (IHF) in one chromatographic step," *Gene* 147:149-150 (September 1994).

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	AR	17	Fiering, S., *et al.*, "An 'in-out' strategy using gene targeting and FLP recombinase for the functional dissection of complex DNA regulatory elements: Analysis of the β-globin locus control region," *Proc. Natl. Acad. Sci. USA 90*:8469-8473 (1993).
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	AR	18	Geoffroy, F., *et al.*, "A new phage display system to construct multicombinatorial libraries of very large antibody repertoires," *Gene 151*:109-113 (December 1994).
	AS	18	Glasgow, A.C., *et al.*, "DNA-binding Properties of the Hin Recombinase," *J. Biol. Chem. 264*:10072-10082 (1989).
	AT	18	Golic, K. G. and Lindquist, S., "The FLP Recombinase of Yeast Catalyzes Site-Specific Recombination in the Drosophila Genome," *Cell 59*:499-509 (1989).

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	AR	19	Gu, *et al.*, "Deletion of a DNA polymerase beta gene segment in T celss using cell type-specific gene targeting," *Science 265*:103-106 (1994).
	AS	19	Guo, F., *et al.*, "Asymmetric DNA bending in the Cre-*loxP* site-specific recombination synapse," *Proc. Natl. Acad. Sci. USA 96*:7143-7148 (1999).
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	AR	20	Hasan, N., and Szybalski, W., "Control of cloned gene expression by promoter inversion in vivo: construction of improved vectors with a multiple cloning site and the p_{tac} promoter," *Gene 56*:145-151 (1987).
	AS	20	Hasan, N., *et al.*, "*Escherichia coli* genome targeting, I. Cre-*lox*-mediated in vitro generation of *ori*$^-$ plasmids and their in vivo chromosomal integration and retrieval," *Gene 150*:51-56 (December 1994).
	AT	20	Hashimoto-Gotoh, T., *et al.*, "Improved vector, pHSG664, for direct streptomycin-resistance selection: cDNA cloning with G:C-tailing procedure and subcloning of double-digested DNA fragments," *Gene 41*:125-128 (1986).

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	AR	21	Hoekstra, M. F., *et al.*, "Shuttle Mutagenesis: Bacterial Transposons for Genetic Manipulations in Yeast," *Meth. Enzymol.* *194*:329-342 (1991).
	AS	21	Hoess, R.H., *et al.*, "P1 site-specific recombination: Nucleotide sequence of the recombining sites," *Proc. Natl. Acad. Sci. USA* *79*:3398-3402 (1982).
	AT	21	Hoess, R.H., *et al.*, "Mechanism of Strand Cleavage and Exchange in the Cre-*lox* Site-specific Recombination System," *J. Mol. Biol.* *181*:351-362 (1985).

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	AR	22	Hoess, R., *et al.*, "Formation of small circular DNA molecules via an in vitro site-specific recombination system," *Gene 40*:325-329 (1985).
	AS	22	Hoess, R. H., *et al.*, "The role of the *loxP* spacer region in P1 site-specific recombination," *Nucl. Acids Res. 14(5)*:2287-2300 (1986).
	AT	22	Hoess, R. H., and Abremski, K., "The Cre-*lox* Recombination System," *in*: *Nucleic Acids and Molecular Biology, Vol. 4*, ed. by Eckstein, F. and D. M. J. Lilley, Springer-Verlag, Berlin, pp 99-109 (1990).

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	AR	23	Holt, C.L., and May, G.S., "A novel phage λ replacement Cre-*lox* vector that has automatic subcloning capabilities," *Gene 133*:95-97 (1993).
	AS	23	Hoogenboom, H.R., *et al.*, "Multi-subunit proteins on the surface of filamentous phage: methodologies for displaying antibody (Fab) heavy and light chains," *Nucl. Acids Res. 19*:4133-4137 (1991).
	AT	23	Jaffé, A., *et al.*, "Effects of the *ccd* Function of the F Plasmid on Bacterial Growth," *J. Bacteriol. 163*:841-849 (1985).

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	AR	24	Kanaar, R., *et al.*, "Gin-Mediated Recombination of Catenated and Knotted DNA Substrates: Implications for the Mechanism of Interaction Between *Cis*-Acting Sites," *Cell 58*:147-159 (1989).
	AS	24	Kilby, N. J., *et al.*, "Site-specific recombinases: tools for genome engineering," *Trends in Genetics 9*:413-421 (1993).
	AT	24	Kim, *et al.*, "Lambda Int protein between higher complexes at two distant chromosomal loci attL and attR," *Science 256*:198-263 (1992).

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	AR	25	Kozak, M., "Comparison of initiation of protein synthesis in procaryotes, eucaryotes, and organelles," *Microbiol. Rev.* 47:1-45 (1983).
	AS	25	Kozak, M., "An analysis of 5'-noncoding sequences from 699 vertebrate messenger RNAs," *Nucl. Acids res.* 15:8125-8132 (1987).
	AT	25	Kozak, M., "Structural features in eukaryotic mRNAs that modulate the initiation of translation," *J. Biol. Chem* 266:19867-19870 (1991).

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	AR	26	Kühn, R., *et al.*, "Inducible Gene Targeting in Mice," *Science 269*:1427-1429 (September 1995).
	AS	26	Lafontaine, D., and Tollervey, D., "One-step PCR mediated strategy for the construction of conditionally expressed and epitope tagged yeast proteins," *Nucl. Acids Res. 24*:2469-2472 (1996).
	AT	26	Lakso, M., *et al.*, "Targeted oncogene activation by site-specific recombination in transgenic mice," *Proc. Natl. Acad. Sci. USA 89*:6232-6236 (1992).

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	AR	27	Lander, E.S., "The new genomics: global views of biology," *Science* 274:536-539 (October 1996).
	AS	27	Landy, A., "Mechanistic and structural complexity in the site-specific recombination pathways of Int and FLP," *Curr. Op. Genet. Develop.* 3:699-707 (1993).
	AT	27	Landy, A., "Dynamic, Structural, and Regulatory Aspects of λ Site-Specific Recombination," *Annu. Rev. Biochem.* 58:913-949 (1989).

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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.285000M/BJD/JKM	APPLICATION NO. 10/680,316
	APPLICANT Hartley *et al.*	
	FILING DATE October 8, 2003	GROUP 1636

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	28	Lebreton, B., *et al.*, "Mutations That Improve the Binding of Yeast FLP Recombinase to Its Substrate," *Genetics 118*:393-400 (1988).
	AS	28	Lee, E. C., *et al.*, "Genetic Analysis of *Escherichia coli* Integration Host Factor Interactions with Its Bacteriophage λ H' Recognition Site," *J. Bacteriol. 173*:609-617 (1991).
	AT	28	Leong, J.M., *et al.*, "Generation of single base-pair deletions, insertions, and substitutions by a site-specific recombination system," *Proc. Natl. Acad. Sci. USA 82*:6990-6994 (1985).

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	AR	29	Liu, Q., *et al.*, "The univector plasmid-fusion system, a method for rapid construction o recombinant DNA without restriction enzymes," *Curr. Biol.* *8*:1300-1309 (1998).
	AS	29	Lorbach, E. *et al.*, "Site-specific Recombination in Human Cells Catalyzed by Phage λ Integrase Mutants," *J. Mol. Biol.* *296*:1175-1181 (March 2000).
	AT	29	Luckow, V. A., *et al.*, "Efficient Generation of Infectious Recombinant Baculoviruses by Site-Specific Transposon-Mediated Insertion of Foreign Genes into a Baculovirus Genome Propagated in *Escherichia coli*," *J. Virol.* *67(8)*:4566-4579 (1993).

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	AR	30	Maeser, S., and Kahmann, R., "The Gin recombinase of phage Mu can catalyse site-specific recombination in plant protoplasts," *Mol. Gen. Genet. 230*:170-176 (1991).
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	AR	31	McCarthy, JE and Brimacombe, R., "Prokaryotic translation: the interactive pathway leading to initiation," *Trends Genet 10*:402-407 (November 1994).
	AS	31	Medberry, S.L., *et al.*, "Intra-chromosomal rearrangements generated by Cre-*lox* site-specific recombination," *Nucl. Acids Res. 23*:485-490 (1995).
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	AR	32	Mizuuchi, K., and Mizuuchi, K., "Integrative Recombination of Bacteriophage λ: In Vitro Study of the Intermolecular Reaction," *Cold Spring Harb. Symp. Quant. Biol.* *43*:1111-1114 (1979).
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	AR	33	Mullins, L.J., *et al.*, "Efficient Cre-lox linearisation of BACs: applications to physical mapping and generation of transgenic animals," *Nucl. Acids Res.* *25(12)*:2539-2540 (1997).
	AS	33	Nagaraja, R. and Weisberg, R. A., "Specificity Determinants in the Attachment Sites of Bacteriophages HK022 and λ," *J. Bacteriol.* *172*:6540-6550 (1990).
	AT	33	Nash, H.A., "Integrative Recombination of Bacteriophage Lambda DNA *In Vitro*," *Proc. Natl. Acad. Sci. USA* *72*:1072-1076 (1975).

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	AR	34	Nash, H.A., and Robertson, CA., "Purification and properties of the Escherichia coli protein factor required for lambda integra tive recombination," *J. Biol. Chem.* *256*:9246-9253 (1981).
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	AR	35	Nash, H. and C.A. Robertson, "Heteroduplex substrates for bacteriophage lambda site-specific recombination: cleavage and strand transfer products," *EMBO J.* *8*:3523-3533 (1989).
	AS	35	Nash, H.A., "Bending and supercoiling of DNA at the attachment site of bacteriophage lambda," *Trends Biochem. Sci* 15:222-227 (1990).
	AT	35	Numrych, T. E., *et al.*, "A comparison of the effects of single-base and triple-base changes in the integrase arm-type binding sites on the site-specific recombination of bacteriophage lambda," *Nucl. Acids Res. 18*:3953-3959 (1990).

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	AR	36	Numrych, T.E., *et al.*, "Characterization of the bacteriophage lambda excisionase (Xis) protein: the C-terminus is required for Xis–integrase cooperativity but not for DNA binding," *EMBO J. 11(10)*:3797-3806 (1992).
	AS	36	Nunes-Dŭby, S.E., *et al.*, "Half-*att* Site Substrates Reveal the Homology Independence and Minimal Protein Requirements for Productive Synapsis in λ Excisive Recombination," *Cell 59*:197-206 (1989).
	AT	36	Nunes-Duby, *et al.*, "Similarities and differences among 105 members of the Int family of site-specific recombinases," *Nucl. Acids Res. 26*:391-406 (1998).

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	AR	37	Oberto, J., *et al.*, "A segment of the phage HK022 chromosome is a mosaic of other lambdoid chromosomes," *Nucl. Acids Res. 22(3)*:354-356 (February 1994).
	AS	37	Oliner, J.D., *et al.*, "*In vivo* cloning of PCR products in *E. coli*," *Nucl. Acids Res. 21*:5192-5197 (1993).
	AT	37	Orban, P. C., *et al.*, "Tissue- and site-specific DNA recombination in transgenic mice," *Proc. Natl. Acad. Sci. USA 89*:6861-6865 (1992).

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	AR	38	Osborne, B.I., *et al.*, "A system for insertional mutagenesis and chromosomal rearrangement using the Ds transposon and Cre-*lox*," *Plant J.* 7:687-701 (1995).
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	AR	40	Peredelchuk, M.Y., and Bennett, G.N., "A method for construction of *E. coli* strains with multiple DNA insertions in the chromosome," *Gene 187*:231-238 (1997).
	AS	40	Pichel, J. G., *et al.*, "Timing of SV40 oncogene activation by site-specific recombination determines subsequent tumor progression during murine lens development," *Gene 8*:3333-3342 (1993).
	AT	40	Pierce, J. C., *et al.*, "A positive selection vector for cloning high molecular weight DNA by the bacteriophage P1 system: Improved cloning efficacy," *Proc. Natl. Acad. Sci. USA 89*:2056-2060 (1992).

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	AR	41	Podhajska, A. J., *et al.*, "Control of cloned gene expression by promoter inversion in vivo: construction of the heat-pulse-activated *att-nut*L-*p-att-N* module," *Gene 40*:163-168 (1985).
	AS	41	Pósfai, G., *et al.*, "*In vivo* excision and amplification of large segments of the *Escherichia coli* genome," *Nucl. Acids Res. 22(12)*:2392-2398 (June 1994).
	AT	41	Prasad, P. V., *et al.*, "Substrate Recognition by the 2μm Circle Site-Specific Recombinase: Effect of Mutations within the Symmetry Elements of the Minimal Substrate," *Mol. Cell. Biol. 6*:4329-4334 (1986).

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	AR	42	Qian, X., *et al.*, "Reactions between Half- and Full-FLP Recombination Target Sites: A Model System for Analyzing Early Steps in FLP Protein-Mediated Site-Specific Recombination," *J. Biol. Chem 267(11)*:7794-7805 (1992).
	AS	42	Reed, R.R., "Transposon-Mediated Site-Specific Recombination: A Defined in Vitro System," *Cell 25*:713-719 (1981).
	AT	42	Reed, R.R. and N.D. Grindley, "Transposon-Mediated Site-Specific Recombination in Vitro: DNA Cleavage and Protein-DNA Linkage at the Recombination Site," *Cell. 25*:721-728 (1981).

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	43	Richet, E., *et al.*, "The Interaction of Recombination Proteins with Supercoiled DNA: Defining the Role of Supercoiling in Lambda Integrative Recombination," *Cell 46*:1011-1021 (1986).
	AS	43	Richet, E., *et al.*, "Synapsis of Attachment Sites during Lambda Integrative Recombination Involves Capture of a Naked DNA by a Protein-DNA Complex," *Cell 52*:9-17 (1988).
	AT	43	Sadowski, P., "Site-Specific Recombinases: Changing Partners and Doing the Twist," *J. Bacteriol. 165(2)*:341-347 (1986).

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

OIPE JC177
JAN 13 2004
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.285000M/BJD/JKM	APPLICATION NO. 10/680,316
	APPLICANT Hartley *et al.*	
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	AO						Yes No
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	AR	44	Sadowski, PD, "The Flp recombinase of the 2-microns plasmid of Saccharomyces cerevisiae," *Prog. Nucl. Acid Res. Mol. Biol.* 51:53-91 (1995).
	AS	44	Sauer, B., *et al.*, "Site-specific insertion of DNA into a pseudorabies virus vector," *Proc. Natl. Acad. Sci. USA* 84:9108-9112 (1987).
	AT	44	Sauer, B., "Functional Expression of the *cre-lox* Site-Specific Recombination System in the Yeast *Saccharomyces cerevisiae*," *Mol. Cell. Biol.* 7:2087-2096 (1987).

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APPLICANT: Hartley *et al.*	
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	AR	45	Sauer, B. and Henderson, N., "The cyclization of linear DNA in *Escherichia coli* by site-specific recombination," *Gene* 70:331-341 (1988).
	AS	45	Sauer, B. and Henderson, N., "Cre-stimulated recombination at *loxP*-containing DNA sequences placed into the mammalian genome," *Nucl. Acids Res.* 17:147-161 (1989).
	AT	45	Sauer, B., "Manipulation of Transgenes by Site-Specific Recombination: Use of Cre Recombinase," *Meth. Enzymol.* 225:890-900 (1993).

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	AR	46	Sauer, B., "Site-specific recombination: developments and applications," *Curr. Op. Biotechnol.* 5:521-527 (October 1994).
	AS	46	Sauer, B., "Multiplex Cre/*lox* recombination permits selective site-specific DNA targeting to both a natural and an engineered site in the yeast genome," *Nucl. Acids Res. 24(23)*:4608-4613 (1996).
	AT	46	Sauer, B., "Inducible gene targeting in mice using the Cre/lox system," *Methods 14*:381-392 (April 1998).

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	AR	47	Schindelhauer, D., and Cooke, H.J., "Efficient combination of large DNA *in vitro*: in gel site specific recombination (IGSSR) of PAC fragments containing α satellite DNA and the human HPRT gene locus," *Nucl. Acids Res. 25(11)*:2241-2243 (1997).
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	AT	47	Segall, A. M. and Nash, H. A., "Synaptic intermediates in bacteriophage lambda site-specific recombination: integrase can align pairs of attachment sites," *EMBO J. 12*:4567-4576 (1993).

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	AR	48	Segall, A.M., and Nash, H.A., "Architectural flexibility in lambda site-specific recombination: three alternate conformations channel the *attL* site into three distinct pathways," *Genes to Cells 1*:453-463 (1996).
	AS	48	Senecoff, J.F., *et al.*, "DNA Recognition by the FLP Recombinase of the Yeast 2 μ Plasmid - A Mutational Analysis of the FLP Binding Site," *J. Mol. Biol. 201*:405-421 (1988).
	AT	48	Sheffield, P. *et al.*, "Overcoming expression and purification problems of RhoGDI using a family of "parallel" expression vectors," *Protein Expr. Purific. 15*:34-39 (1999).

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	AR	49	Shuman, S., "Recombination mediated by vaccinia virus DNA topoisomerase I in *Escherichia coli* is sequence specific," *Proc. Natl. Acad. Sci. USA 88*:10104-10108 (1991).
	AS	49	Sizemore, C., *et al.*, "Quantitative analysis of Tn*10* Tet repressor binding to a complete set of *tet* operator mutants," *Nucl. Acids Res. 18(10)*:2875-2880 (1990).
	AT	49	Smith, A. J. H., *et al.*, "A site-directed chromosomal translocation induced in embryonic stem cells by Cre-*lox*P recombination," *Nat. Gen. 9*:376-385 (April 1995).

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	AR	50	Snaith, M.R., *et al.*, "Multiple cloning sites carrying *loxP* and *FRT* recognition sites for the Cre and Flp site-specific recombinases," *Gene 166:*173-174 (December 1, 1995).
	AS	50	Spengler, S.J., *et al.*, "The Stereostructure of Knots and Catenanes Produced by Phage λ Integrative Recombination: Implications for Mechanism and DNA Structure," *Cell 42:*325-334 (1985).
	AT	50	Sternberg, N., *et al.*, "Site-specific Recombination and Its Role in the Life Cycle of Bacteriophage P1," *Cold Spring Harbor Symp. Quant. Biol. 45:*297-309 (1981).

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	AR	51	Sternberg, N., *et al.*, "Bacteriophage P1 *cre* Gene and its Regulatory Region," *J. Mol. Biol. 187*:197-212 (1986).
	AS	51	Sternberg, N., "Bacteriophage P1 cloning system for the isolation, amplification, and recovery of DNA fragments as large as 100 kilobase pairs," *Proc. Natl. Acad. Sci. USA 87*:103-107 (1990).
	AT	51	Storck, T., *et al.*, "Rapid construction in yeast of complex targeting vectors for gene manipulation in the mouse," *Nucl. Acids Res. 24*:4594-4596 (1996).

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	AR	52	Strathmann, M., *et al.*, "Transposon-facilitated DNA sequencing," *Proc. Natl. Acad. Sci. USA 88*:1247-1250 (1991).
	AS	52	Thompson, J. F., *et al.*, "Mutations in an Integration Host Factor-Binding Site: Effect on Lambda Site-Specific Recombination and Regulatory Implications," *J. Bacteriol. 168*:1343-1351 (1986).
	AT	52	Thompson, J.F., *et al.*, "Helical-repeat dependence of integrative recombination of bacteriophage λ: Role of the *P1* and *H1* protein binding sites," *Proc. Natl. Acad. Sci. USA 85*:6323-6327 (1988).

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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	AR	53	Thorpe, H.M., and Smith, M.C.M., "*In vitro* site-specific integration of bacteriophage DNA catalyzed by a recombinase of the resolvase/invertase family," *Proc. Natl. Acad. Sci. USA 95*:5505-5510 (May 1998).
	AS	53	Tsurushita, N., *et al.*, "Phage display vectors for in vivo recombination of immunoglobulin heavy and light chain genes to make large combinatorial libraries," *Gene 172*:59-63 (1996).
	AT	53	Vanin, E.F., *et al.*, "Development of High-Titer Retroviral Producer Cell Lines by Using Cre-Mediated Recombination," *J. Virol. 71*:7820-7826 (1997).

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OIPE JC117
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.285000M/BJD/JKM	APPLICATION NO. 10/680,316
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	AM						Yes No
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	AR	54	Waterhouse, P., *et al.*, "Combinatorial infection and *in vivo* recombination: a strategy for making large phage antibody repertoires," *Nucl. Acids Res. 21(9)*:2265-2266 (1993).
	AS	54	Wang, G., *et al.*, "pDUAL: A transposon-based cosmid cloning vector for generating nested deletions and DNA sequencing templates *in vivo*," *Proc. Natl. Acad. Sci. USA 90*:7874-7878 (1993).
	AT	34	Wasserman, S.A., *et al.*, "The helical repeat of double-stranded DNA varies as a function of catenation and supercoiling," *Nature 334*:448-450 (1988).

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	AR	55	Wierzbicki, A., *et al.*, "A Mutational Analysis of the Bacteriophage P1 Recombinase Cre," *J. Mol. Biol. 195*:785-794 (1987).
	AS	55	Weisberg, R. A., and Landy, A., "Site-specific Recombination in Phage Lambda," *in*: "*Lambda II*," Hendrix, R. W. *et al.*, eds., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N. Y., pp. 211-250 (1983).
	AT	55	Wild, J., *et al.*, "A broad-host-range in vivo pop-out and amplification system for generating large quantities of 50- to 100-kb genomic fragments for direct DNA sequencing," *Gene 179*:181-188 (1996).

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	AR	56	Wild, J., *et al.*, "Targeting and retrofitting pre-existing libraries of transposon insertions with *FRT* and *oriV* elements for in-vivo generation of large quantities of any genomic fragment," *Gene 223*:55-66 (1998).
	AS	56	Winoto, A.,*et al.*, "Directional Control of Site-specific Recombination by Bacteriophage λ," *J. Mol. Biol. 192*:677-680 (1986).
	AT	56	Yang, W., and Mizuuchi, K., "Site-specific recombination in plane view," *Structure 5*:1401-1406 (1997).

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	AR	57	Yanisch-Perron, C., *et al.*, "Improved M13 phage cloning vectors and host strains: nucleotide sequences of the M13mp18 and pUC19 vectors," *Gene* 33:103-119 (1985).
	AS	57	Yoon, Y.G., *et al.*, "Cre/*loxP*-mediated in vivo excision of large segments from yeast genome and their amplification based on the 2 μm plasmid-derived system," *Gene* 223:67-76 (1998).
	AT	57	York, D., *et al.*, "Simple and efficient generation *in vitro* of nested deletions and inversions: Tn5 intramolecular transposition," *Nucl. Acids Res.* 26:1927-1933 (1998).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	58	Zhang, Y. *et al.*, "A new logic for DNA engineering using recombination in Escherichia coli," *Nat. Genet.* *20*:123-128 (1998).
	AS	58	Zhu, *et al.*, "Homology requirements for ligation and strand excahnge by the FLP recombinase," *J. Biol. Chem.* *270*:11646-11653 (1995).
	AT	58	International Search Report for International Application No. PCT/US98/22589, mailed October 26, 1998.

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.